MATH 1020: Calculus II (4 credits), SPRING 2024

Instructor	Dr. Belmiro Galo	galodb@rpi.edu	Please include full name and class when emailing. Failure to do so may result in your email being ignored.
Teaching Assistant	Bill Huang	huangh14@rpi.edu	

Please include the course name or number, your full name, and section number in your emails. Email should be used only for private communication. For general questions about the course, make sure to read the syllabus and the information on LMS and if questions remain, please ask them on WebEx Teams.

Office Hours			**ROOM**
Dr. Galo	Wednesdays	11:00am-12:30pm	404 Amos Eaton
Bill Huang	Tuesdays	12:30pm-1:45pm	
	Wednesdays	12:30pm-1:45pm	316E in Amos Eaton

Course Description: Techniques and applications of integration, polar coordinates, parametric equations, infinite sequences and series, vector functions and curves in space, functions of several variables, and partial derivatives. Prerequisite: MATH 1010 (from the Rensselaer Catalog)

LMS: LMS will be used to post all course announcements, course documents, lecture notes, assignments, grades, and more. Be sure to check LMS regularly.

Textbook and Achieve: Calculus: Early Transcendentals, Fourth ed., by Jon Rogawski, Colin Adams, and Robert Franzosa, Macmillan Publishers, 2019. We will cover material from chapters 7, 8, and 10-14. Access to the textbook—physical or electronic—is **required**.

Buying access to Achieve is **required** for the course. Achieve is an online homework platform where students will complete homework assignments. Access to the eBook is included.

Our Achieve course will not be available until Tuesday, January 11. Students will register for it directly from LMS. Log in to LMS and click on our course, which is called M A T H 1 0 2 0 : C a l c u l u s I I . In the left sidebar, click on **Achieve & Homework**. Instructions for registering for our Achieve course will be available there along with a link to our Achieve course. Students registering for our Achieve course during the first 4 weeks will have the option to start a free 14-day grace period, but will need to purchase access or use an access code before the grace period expires to continue using the course.

Student Learning Outcomes: Upon successful completion of this course, students will be able to demonstrate

- basic and advanced symbol manipulation skills,
- the ability to convert between calculus concepts and their graphical, numerical, and symbolic representations,
- the ability to apply calculus to selected problems in science and engineering, and

- the ability to apply certain fundamental theorems, basic concepts, and rules from calculus to solve symbolic and graphical problems.
- the ability to present problems related to the theory of calculus and its applications to science and engineering disciplines.

Meeting Times: Students registered for the course will see two types of meetings on their schedules on SIS.

Grading: Final course grades will be determined as follows:

Exam 1. February 8. (DSS February 7)		15%
Exam 2. February 29. (DSS February 28)		25%
Exam 3. April 1. (DSS April 3)		15%
Exam 4. April 22. (DSS April 24)		25%
Homework/Achieve	Once or twice (Weekly)	15%
Problem session	Every Thursday during class	5%

Letter grades will be assigned according to the following scheme:

A 93–100;
A- 90–92.9;
B+ 87–89.9;
B 83–86.9;
B– 80–82.9;
C+ 76–79.9;
C 72–75.9;
C– 67–71.9;
D+ 62–66.9;
D 57–61.9;
F 0–56.9

Exams: The dates for Exams 1–4 are listed above in section **Grading**.

Missing an exam should not be taken lightly. Thus, students who miss an exam must make every effort to notify the four instructors **as soon as possible** to avoid grade penalties.

- If a student misses an exam and fails to notify the instructors in 24h after the exam, then the student may not take the make-up exam and receives a score of 0 on the exam, regardless of whether the absence was excused.

The make-up exam policy above applies to Exams 1–4.

Homework: Achieve homework assignments will be due once or twice weekly on Mondays and Thursdays at 11:59 PM and will be graded automatically by the system. No other due date extensions will be granted for any reason. To further compensate for this, one homework assignment score might be dropped at the end of the semester.

Additional problems will be assigned from the textbook and will be posted on LMS. Though these problems will not be collected nor graded, they should not be viewed as optional. Success in the course depends on successful completion of all homework, both Achieve homework and textbook homework. Exam problems are frequently chosen from homework assignments and lecture examples. Full solutions to odd-numbered textbook problems can be found on Achieve. When logged in to our Achieve course, view content by assignments and scroll to the bottom of the page. The student solutions manual for the chapters covered in the course may be found below No Due Dates.

Disability Services for Students (DSS): Students with a memorandum from the Disability Services for Students (DSS) office identifying accommodations for exams must present the memorandum to the instructor by Friday, September 1. Providing the accommodations requires advance planning. Students will not be granted accommodations unless a memorandum from DSS has been received.

Calculator Policy: Calculators will not be allowed on exams. Problems will be designed so that this does not create an issue. Occasionally, a calculator may be required to complete a homework problem, but students should not rely on calculators for simple arithmetic or trigonometric calculations.

Academic Integrity: Students should familiarize themselves with the section on academic integrity in the Rensselaer Handbook of Student Rights and Responsibilities (pp. 16–18). All work submitted on exams must be the student's own. A student may not change an answer on an exam before submitting it for an appeal. In addition, no calculators, computers, tablets, open books, open notes, phones, headphones, or smartwatches may be used during exams. Talking or communicating with other students in any way during exams is also prohibited. Students may discuss homework with other students, TA, and the instructor, but the work submitted must be the student's own.

The minimum academic sanction applied to a student found in violation of the above policies will be a grade of 0 on the assignment. A stronger sanction may be applied if warranted. A report regarding the violation will also be submitted to the Dean of Students Office and will remain on file until graduation. Repeat offenders will fail the course and will be subject to judicial action.

Attendance: Students are responsible for all material covered in lectures whether they are present or not.

Visitors: Visitors are prohibited during all class meetings. Only students who are registered for the class should be present in the classroom. Students may only attend class meetings at the time and place listed on their schedule on SIS.

Grade Appeals: If upon reviewing the answer key and solutions for an exam a student feels that their work was graded incorrectly, then the student may submit a grading appeal to the instructor. Students have one week after the scores of exams or quizzes are released to submit an appeal.

Classroom Decorum: Phones may not be used during class and should be silent. Computers and tablets may not be used for anything other than taking notes. Students who are unable to courteously comply with these policies may be asked to leave the room.

The above is subject to change.